

(Prior Art)

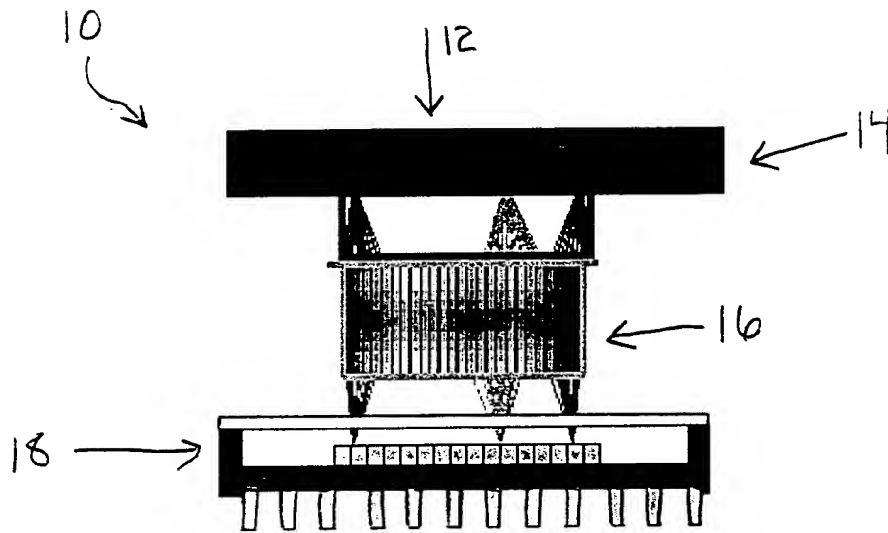


Fig. 1





The diagram illustrates an optical measurement system. A container 102 is shown with a lens 132 positioned above it. Light rays from the container pass through the lens and are reflected by a mirror 104. The reflected light is then directed to a detector 114, which is part of a larger assembly 112. The detector is connected to a computer 120 via a signal line 110. The computer is also connected to a power source 122. The entire system is labeled 130. The diagram shows the light rays originating from the container, passing through the lens, reflecting off the mirror, and being detected by the detector. The computer processes the data received from the detector.

### Figure 4

[illegible]

## Figure 5

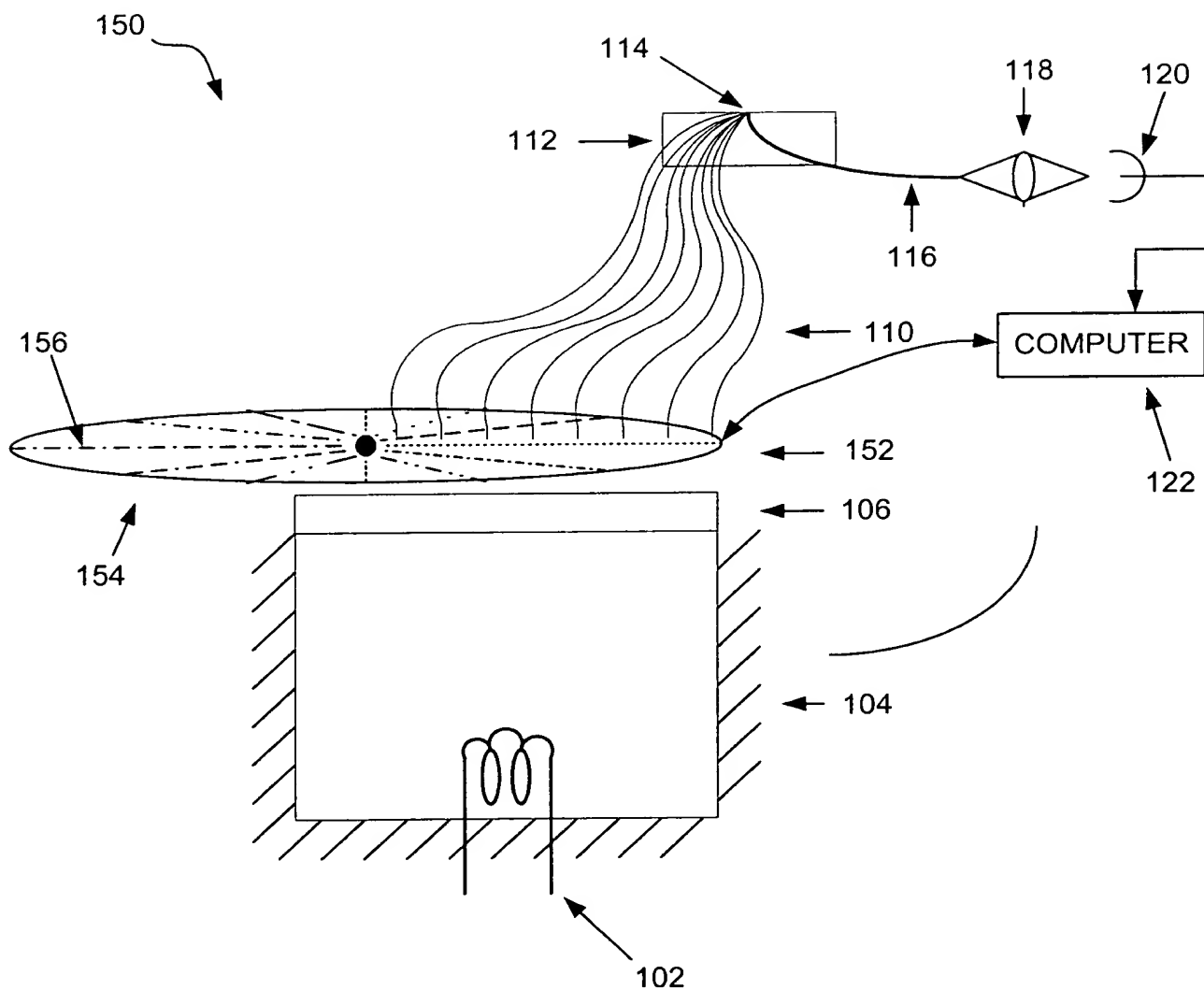
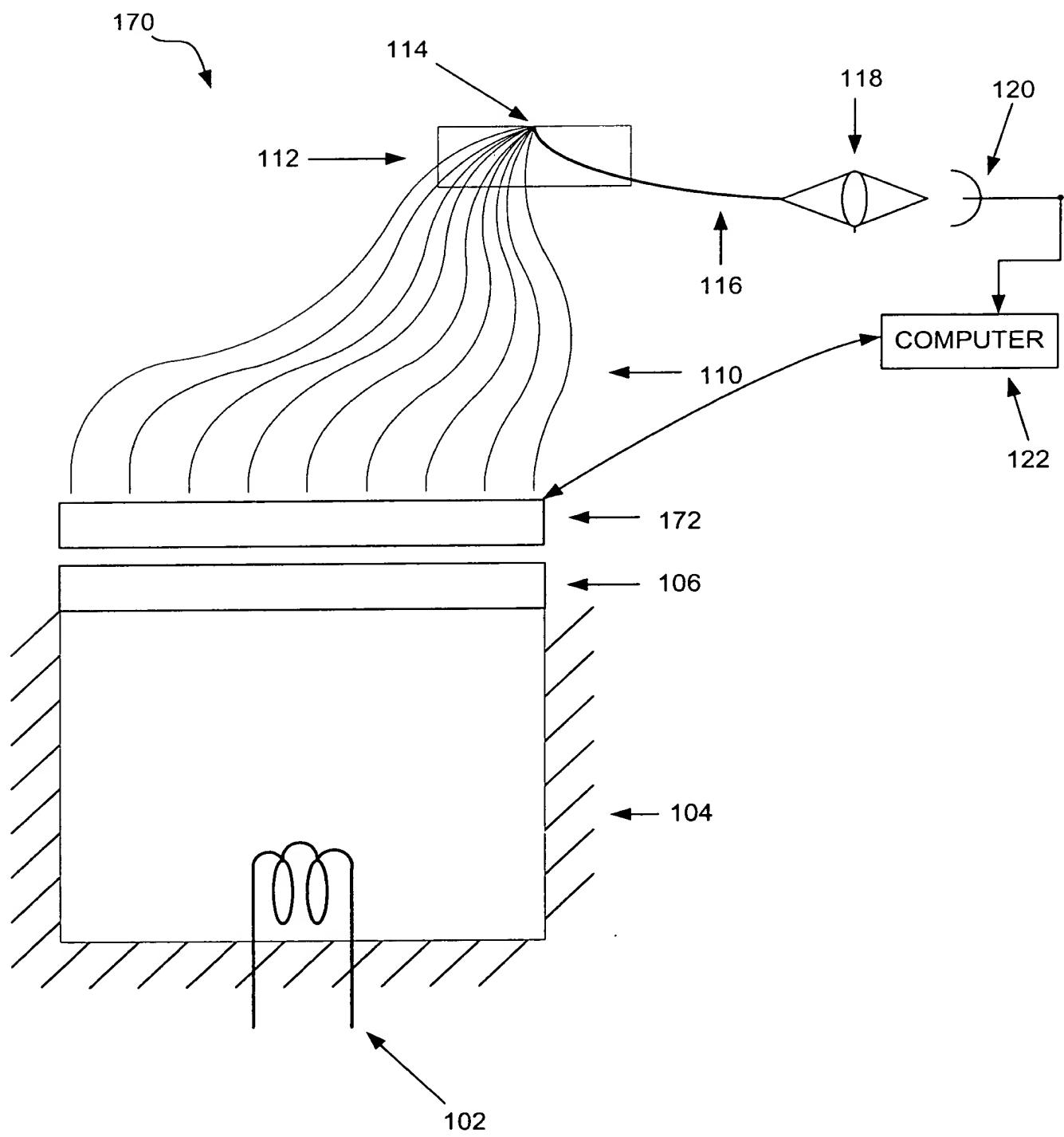


Figure 6

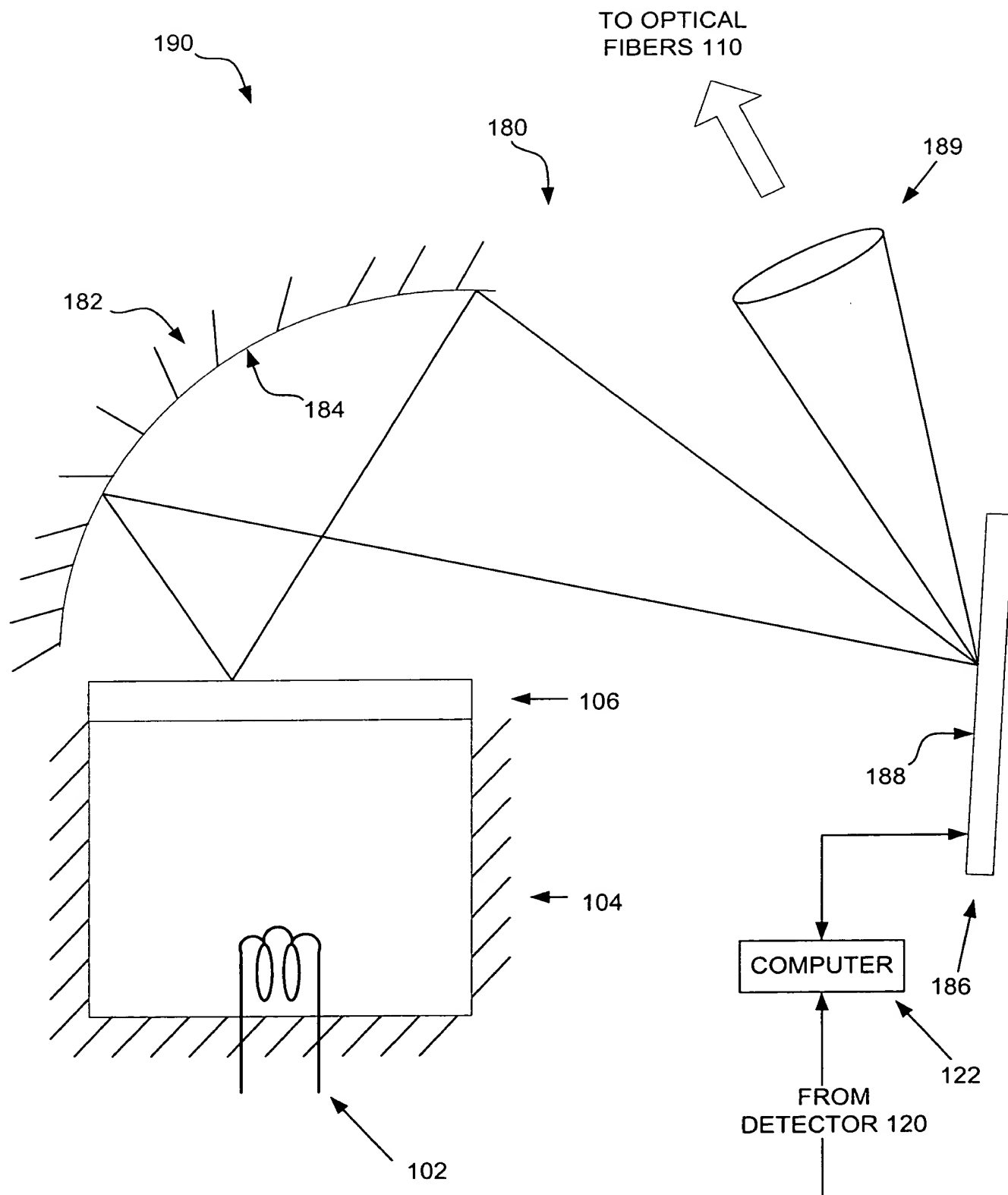
The diagram illustrates a system for measuring the position of a particle beam. A cylindrical container 102 is mounted on a base 104. Inside the container, a coil of wire 106 is positioned. A particle beam 110 enters from the top, passes through a series of points 112, and is focused by a lens 114. The beam is then detected by a detector 116. The detector is connected to a computer 120, which is also connected to a control system 122. The control system 122 is connected to the coil 106. The entire system is labeled 160.

## Figure 7

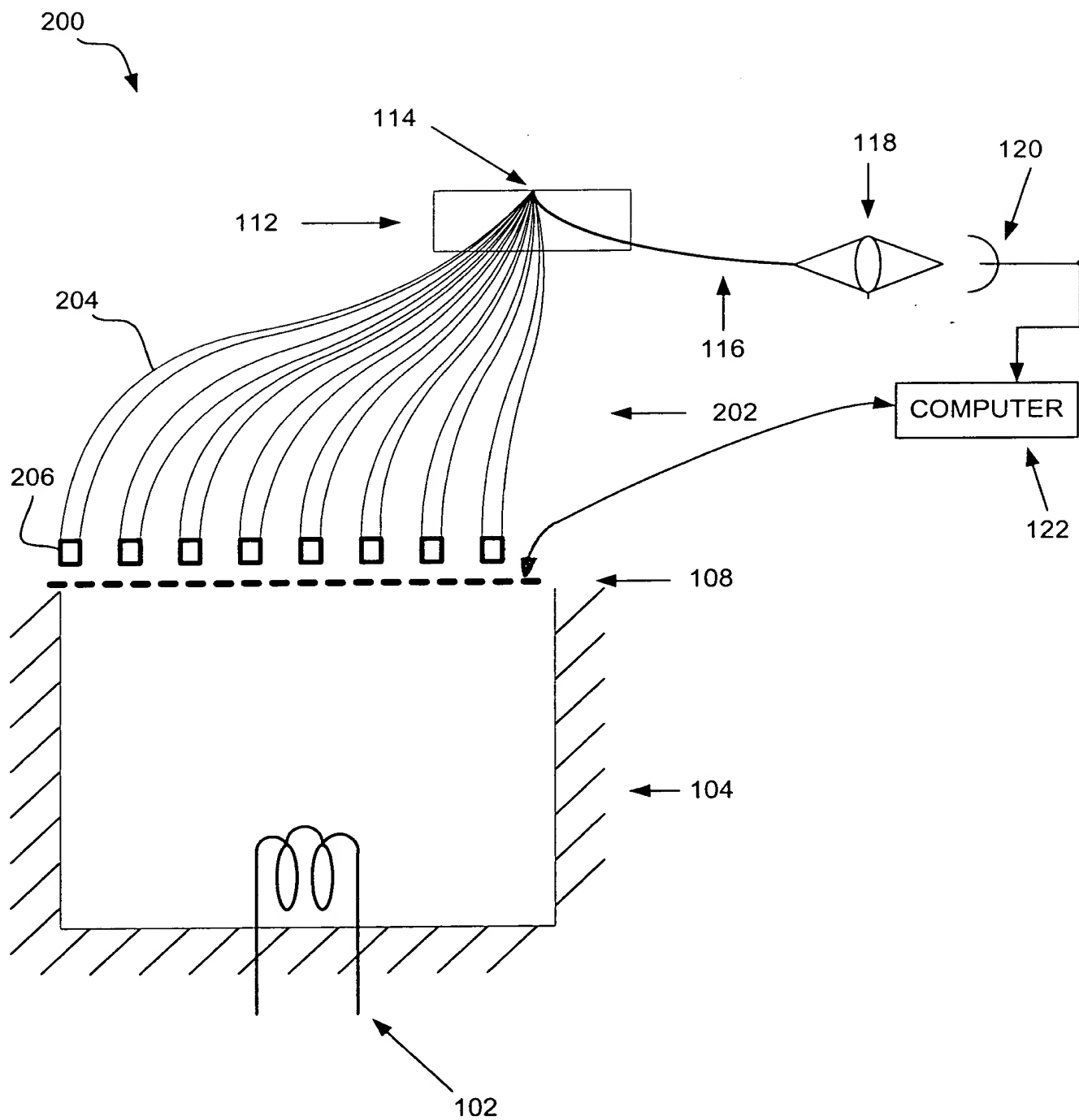


**Figure 8**



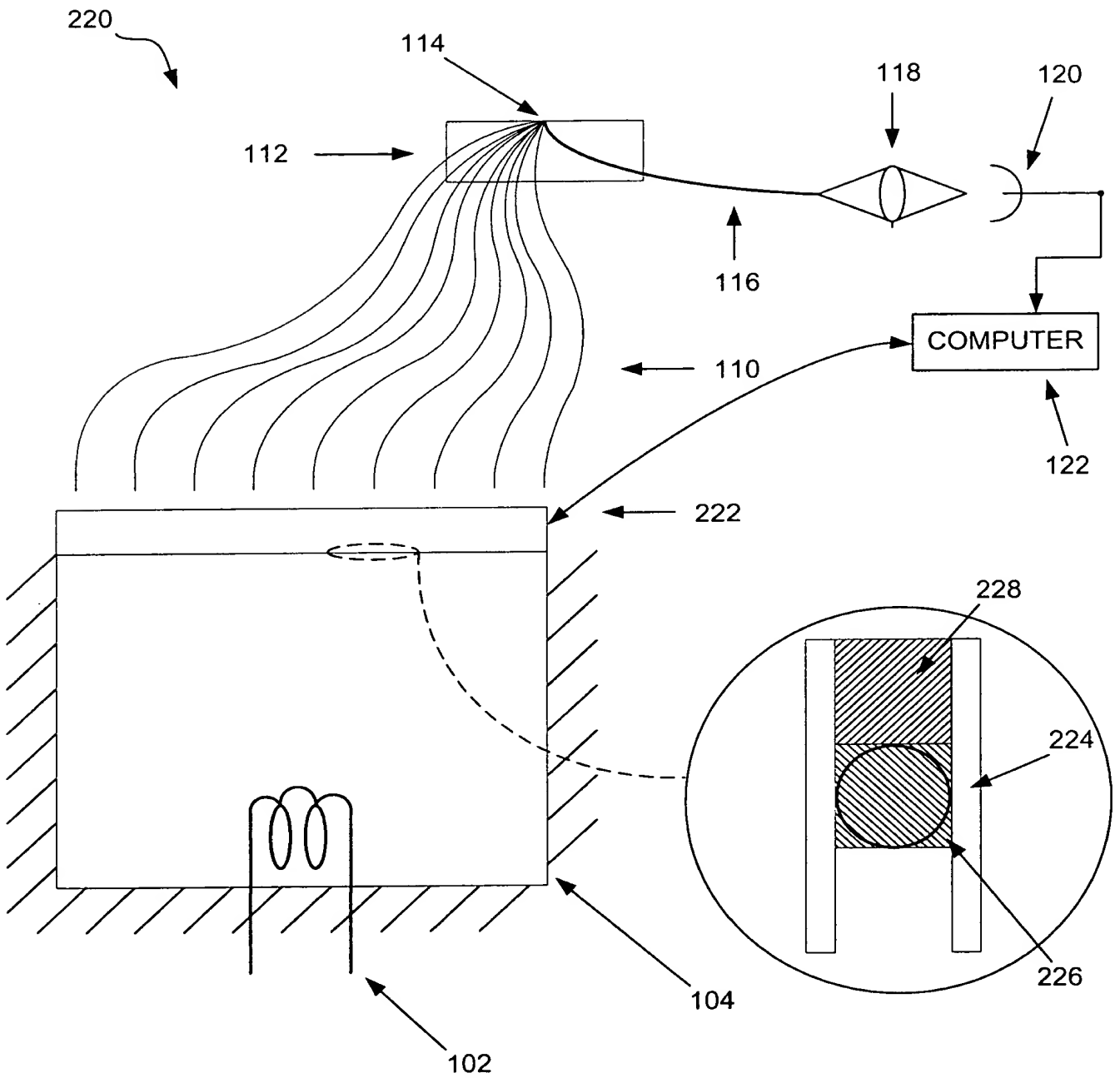


## Figure 9



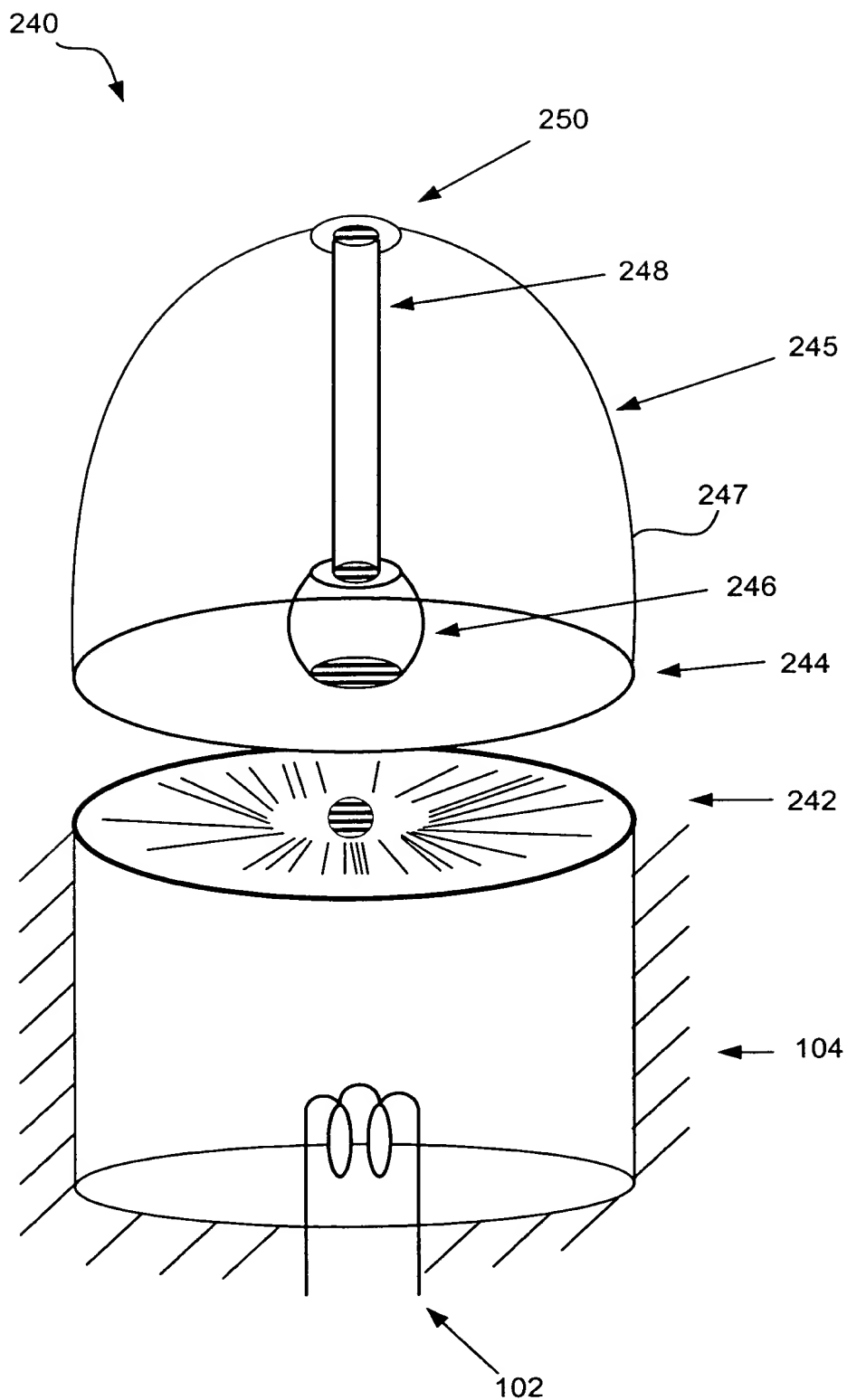
**Figure 10**





**Figure 12**





**Figure 14**

A cross-sectional diagram showing two main rectangular components, 102 and 106, positioned side-by-side. Between them are three vertical layers: a thin white layer 104, a central hatched layer 108, and another thin white layer 262. The entire assembly is enclosed by a frame or housing 110. On the left side, there is a curved surface labeled 264. At the bottom center, there is a small gap or opening labeled 108. To the right of the assembly, there is a label 268 pointing towards the outer edge of component 106. Below the central gap, there is a label 260 pointing upwards.

Fig. 15